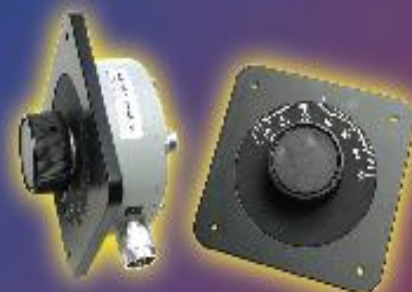




- **Fixed Attenuators**
- **Terminations**
- **Variable Attenuators**
- **Power Dividers/Splitters**
- **RF Adapters**
- **DC Blocks**
- **RF Tuners**
- **DC - 50GHz**
- **1 watt to 1000 watts**
- **Custom Solutions**



A Tradition of Quality

A Commitment to Customer Service

Fixed Coaxial Attenuator



Model	Atten (min-max)	Fmax GHz	Pa W	Ppk kW	Conn	ARO	Disc	Notes
WA1W/6	(1-30)	6	2	0.5	N	30	A	
WA1W/6	(31-60)	6	2	0.5	N	30	A	
WA1W/12	(1-30)	12.4	2	0.5	N	30	A	
WA1W/12	(31-60)	12.4	2	0.5	N	30	A	
WA2W	(1-30)	18	2	0.5	N	30	A	
WA2W	(31-60)	18	2	0.5	N	30	A	
WA1/6	(1-30)	6	5	1	N	30	A	
WA1/6	(31-60)	6	5	1	N	30	A	
WA1	(1-30)	12.4	5	1	N	30	A	
WA1	(31-60)	12.4	5	1	N	30	A	
WA2	(1-30)	18	5	1	N	30	A	
WA2	(31-60)	18	5	1	N	30	A	
WA3	(1-20)	12.4	2	0.5	S	30	A	
WA3	(21-60)	12.4	2	0.5	S	30	A	
WA3C/6	(0-30)	6	2	0.5	S	30	A	
WA3C	(0-30)	12.4	2	0.5	S	30	A	
WA3CH/6	(0-30)	6	2	0.5	S	30	A	
WA3CH	(0-30)	12.4	2	0.5	S	30	A	
WA3H/6	(0-20)	6	2	0.5	S	30	A	
WA3H/6	(21-60)	6	2	0.5	S	30	A	
WA3H	(0-30)	12.4	2	0.5	S	30	A	
WA3H	(31-60)	12.4	2	0.5	S	30	A	
WA3M	(1-20)	12.4	2	0.5	S	30	A	
WA3M	(21-60)	12.4	2	0.5	S	30	A	
WA3T/6	(0-30)	12.4	2	0.5	S	30	A	
WA3T/6	(31-60)	12.4	2	0.5	S	30	A	
WA3T	(0-30)	12.4	2	0.5	S	30	A	
WA3T	(31-60)	12.4	2	0.5	S	30	A	
WA4	(1-20)	18	2	0.5	S	30	A	
WA4	(21-60)	18	2	0.5	S	30	A	
WA4C	(0-30)	18	2	0.5	S	30	A	
WA4CH	(0-30)	18	2	0.5	S	30	A	
WA4H	(0-30)	18	2	0.5	S	30	A	
WA4H	(31-60)	18	2	0.5	S	30	A	
WA4M	(0-20)	18	2	0.5	S	30	A	
WA4M	(21-60)	18	2	0.5	S	30	A	
WA4T	(0-30)	18	2	0.5	S	30	A	
WA4T	(31-60)	18	2	0.5	S	30	A	
WA6	(3/6/10/15/20/30)	50	1		2.4	30	A	
WA7/6	(1-30)	6	5	1	S	30	A	
WA7/6	(31-60)	6	5	1	S	30	A	
WA7/12	(1-30)	12	5	1	S	30	A	
WA7/12	(31-60)	12	5	1	S	30	A	
WA7	(1-30)	18	5	1	S	30	A	
WA7	(31-60)	18	5	1	S	30	A	
WA8/6	(1-60)	6	10	1	N	30	A	
WA8/12	(1-60)	12	10	1	N	30	A	
WA8	(1-60)	18	10	1	N	30	A	
WA9	(0-30)	26.5	2	0.5	S	30	B	
WA9	(31-60)	26.5	2	0.5	S	30	B	
WA9C	(0-30)	26.5	2	0.5	S	30	B	
WA9CH	(0-30)	26.5	2	0.5	S	30	B	
WA9H	(0-30)	26.5	2	0.5	S	30	B	
WA9H	(31-60)	26.5	2	0.5	S	30	B	
WA17	(1-30)	18	5	1	7mm	60	B	
WA17	(31-60)	18	5	1	7mm	60	B	
WA18	(3-30)	6	2	0.5	B	45	A	
WA19	(3-30)	6	5	0.5	B	45	A	

Fixed Coaxial Attenuator



Model	Atten (min-max)	Fmax GHz	Pa W	Ppk kW	Conn	ARO	Dis c	Notes
WA19	(3-30)	6	5	0.5	B	45	A	
WA20/6	(3-40)	6	10	0.5	B	45	B	
WA21	(3-40)	4	25	5	N,S,T	30	B	
WA22	(3-40)	8.5	25	5	N,S,T	30	B	
WA23	(3-50)	4	50	5	N,S,T,7/16	30	B	50 dB unidirectional
WA23B	(3-50)	4	50	5	N,S,T	30	B	50 dB unidirectional
WA24	(3-40)	8.5	50	5	N,S,T,7/16	30	B	
WA24B	(3-40)	8.5	50	5	N,S,T	30	B	
WA26	(3-50)	4	100	5	N,S,T,7/16	30	B	40, 50 dB unidirectional
WA27	(3-50)	8.5	100	5	N,S,T,7/16	30	B	
WA29	(3-40)	8.5	75	5	N,S,T,7/16	30	B	
WA30	(3-40)	4	100	5	N,S,T,7/16	30	B	40 dB unidirectional
WA31	(3-40)	8.5	100	5	N,S,T,7/16	30	B	
WA32	no longer offered, see part screening charges on Rates and Adders worksheet							
WA33	(3-30)	8.5	25	5	N,S,T,7/16	30	B	
WA33L	(3-30)	8.5	20	5	N,S,T,7/16	30	B	
WA33B	(3-30)	8.5	25	5	N,S,T	30	B	
WA34	(3-40)	4	25	5	N,S,T,7/16	30	B	
WA34L	(3-40)	4	20	5	N,S,T,7/16	30	B	
WA34B	(3-40)	4	25	5	N,S,T	30	B	
WA35	(10-40)	8.5	250	5	N,S,T,7/16	30	B	
WA36	(10-40)	8.5	300	5	N,S,T,7/16	30	B	
WA37	(1-60)	8.5	10	1	N	30	B	
WA38	(10-40)	5	300	5	N,S,T,7/16	30	B	
WA39	(10-40)	4	150	5	N,S,7/16	30	B	
WA40	(3-40)	3	150	10	N,S,7/16	30	B	
WA41/6	(1-60)	6	10	1	S	30	B	
WA41/12	(1-60)	12	10	1	S	30	B	
WA41/18	(1-60)	18	10	1	S	30	B	
WA41T	(1-60)	18	10	1	T	30	B	
WA42	(3-40)	3	150	10	N,S	60	B	
WA44	(1-30)	18	5	1	N(PREC)	30	B	
WA44	(31-60)	18	5	1	N (PREC)	30	B	
WA45	(3-40)	3	250	10	N,S,7/16	30	B	
WA46/12	(3-40)	12	25	1	N,S,T	30	B	
WA46	(3-40)	18	25	1	N,S,T	30	B	
WA47/12	(6-40)	12	50	1	N,S,T	30	B	
WA47	(6-40)	18	50	1	N,S,T	30	B	
WA48	(10-40)	18	100	1	N,S,T	30	B	
WA49	(3-40)	8.5	150	5	N,S,T,7/16	30	B	
WA50	(1-30)	3	2	1	N	30	B	

Fixed Coaxial Attenuator



Model	Atten (min-max)	Fmax GHz	Pa W	Ppk kW	Conn	ARO	Disc	Notes
WA50	(31-50)	3	2	1	N	30	B	
WA51	(10-40)	8.5	500	5	N,S,7/16	30	B	
WA52	(3-30)	6	150	5	N,S,T,7/16	30	B	
WA53	(10-40)	3	500	10	N,S,7/16	30	B	
WA54	(3-30)	40	2	0.5	K	30	A	
WA55/6	(3-30)	6	5	1	T	30	A	
WA55	(3-30)	18	5	1	T	30	A	
WA56	(3-30)	32	2	0.5	3.5	30	A	
WA57	(3-40)	5	150	10	N,S,7/16	30	B	
WA58	(3-40)	5	250	10	N,S,7/16	30	B	
WA59	(10-40)	3	100	10	N,S,7/16	30	B	
WA60	(10-40)	5	500	5	N,S,7/16	30	B	
WA61	(3-40)	4	150	5	N,S,T	45	B	
WA62	(3-40)	8.5	150	5	N,S,T	45	B	
WA65	(3-30)	3	150	10	N,S,T,7/16	45	B	
WA66/12	(10-40)	12.4	150	1	N,S,T	30	B	
WA66	(10-40)	18	150	1	N,S,T	30	B	
WA67	(10-40)	12.7	350	5	N	45	B	
WA68	(1-30)	6	100	5	N,S,T,7/16	30	B	
WA70	(20-40)	3	1000	10	N,7/16	60	B	
WA71	(3-40)	4	50	5	N,S,T	30	B	
WA72	(3-40)	8.5	50	5	N,S,T	30	B	
WA73	(3-30)	32	50	0.5	3.5	45	B	
WA74	(3-30)	26.5	25	0.5	3.5,K	30	B	
WA75	(3-30)	40	5	0.5	K	30	B	
WA76	(6-30)	40	10	0.5	K	45	B	
WA77	(3-30)	32	5	0.5	3.5	45	B	
WA78	(3-30)	32	10	0.5	3.5	45	B	
WA81	(10-40)	10	500	5	N,7/16	30	B	
WA89	(10-30)	40	20	0.5	K	45	B	
WA90	(3-40)	18	50	1	N,S	30	B	
WA91/12	(6-40)	12.4	100	1	N,S	30	B	
WA91	(6-40)	18	100	1	N,S	30	B	
WA92/12	(10-40)	12.4	150	1	N,S,T	30	B	
WA92	(10-40)	18	150	1	N,S,T	30	B	
WA95	(10-40)	18	200	1	N	45	B	
WA95/12	(10-40)	12.4	200	1	N	45	B	

Calibrated Attenuator Sets



	Base	Atten	Fmax	Pa	Ppk				
Model	Model	Values	GHz	W	kW	Conn	ARO	Disc	Notes
WAS-6	WA2	3,6,10,20	18	5	1	N	30	B	4xWA2
WAS-18	WA44	1,3,6,10,20,30	18	5	1	N	30	B	6XWA44
WAS-19	WA9	3,6,10,20	26.5	2	0.5	S	30	B	4xWA9
WAS-16	WA17	1,3,6,10,20,30	18	5	1	7mm	60	B	6xWA17
WAS-20	WA54	3, 6, 10, 20	40	2	0.2	K	60	B	



Variable Attenuators

Continuously Variable Attenuators

Model	Atten Range	Frangce GHz	Pa W	Ppk kW	Conn	ARO	Disc	Notes
953-3	3	1-11	1	0.5	N	60	B	
953-10	10	2.5-11	1	0.5	N	60	B	
953-20	20	4-11	1	0.5	N	60	B	
953B-3	3	1-18	1	0.5	N	60	B	
953B-10	10	2.5-18	1	0.5	N	60	B	
953B-20	20	4-18	1	0.5	N	60	B	
953K-3	3	1-40	0.5	0.1	2.92	60	B	
953K-10	10	3-40	0.5	0.1	2.92	60	B	
953K-20	20	4-40	0.5	0.1	2.92	60	B	
973-10	10	1.3-11	1	0.5	N	60	B	
973-20	20	2.5-11	1	0.5	N	60	B	
973-40	40	4-11	1	0.5	N	60	B	
DA6-30	30	DC-6	0.3		S	30	B	Digital
DA6-60	60	DC-6	0.3		S	30	B	Digital
DA6-90	90	DC-6	0.3		S	60	B	Digital
DA13-30	30	DC-13	0.3		S	45	B	Digital
DA13-60	60	DC-13	0.3		S	45	B	Digital
VA-02-30	30	DC-2	5	0.5	N,S	30	B	
VA-02-60	60	DC-2	5	0.5	N,S	30	B	
VA-02-100	100	DC-2	5	0.5	N,S	30	B	
VA-02-114	114	DC-2	5	0.5	N,S	30	B	
VA-02-115	115	DC-2	5	0.5	N,S	30	B	
VA-04-30	30	DC-4	5	0.5	N,S	30	B	
VA-04-60	60	DC-4	5	0.5	N,S	30	B	
VA-04-90	90	DC-4	5	0.5	N,S	30	B	
VA-05-60	60	DC-5	5	0.5	N,S	30	B	



Coaxial Terminations

Model	Fmax	Pa	Ppk	Conn	ARO	Disc	Notes
WA1401/3	3	1	0.25	S(m)	30	A	
WA1401/6	6	1	0.25	S(m)	30	A	
WA1401/12	12.4	1	0.25	S(m)	30	A	
WA1401/18	18	1	0.25	S(m)	30	A	
WA1401/26	26.5	1	0.25	S(m)	30	A	
WA1402	40	1	0.25	K	45	B	
WA1405	50	0.5		2.4mm	15	A	
WA1406	12.4	2	0.5	S	30	A	
WA1407	50	1		2.4mm	15	A	
WA1408	18	2	0.5	S	30	A	
WA1409	26.5	2	0.5	S(m)	30	A	
WA1419	18	10	1	S	30	B	
WA1421/4	4	25	5	N,S,T	30	B	
WA1421	8.5	25	5	N,S,T	30	B	
WA1422	4	75	5	N,S,T,7/16	30	B	
WA1423	4	50	5	N,S,T,7/16	30	B	
WA1423B	4	50	5	N,S,T	30	B	
WA1424/12	12.4	5	0.5	N,T	30	B	
WA1424	18	5	0.5	N,T	30	B	
WA1425/6	6	10	1	N,T,7/16	30	B	
WA1425/12	12.4	10	1	N,T,7/16	30	B	
WA1425	18	10	1	N	30	B	
WA1426	8.5	50	5	N,S,T,7/16	30	B	
WA1426B	8.5	50	5	N,S,T	30	B	
WA1427	10	25	5	N	30	B	
WA1428	3	150	10	N,S,T,7/16	30	B	
WA1429	8.5	75	5	N,S,7/16	30	B	
WA1430	4	100	5	N,S,7/16	30	B	
WA1431	8.5	100	5	N,S,7/16	30	B	
WA1432	4	100	5	N,T,7/16	30	B	
WA1433	8.5	25	5	N,S,T,7/16	30	B	
WA1433B	8.5	25	5	N,S,T	30	B	
WA1433L	8.5	20	5	N,S,T	30	B	
WA1434	4	25	5	N,S,T	30	B	
WA1434B	4	25	5	N,S,T	30	B	
WA1434L	4	20	5	N,s,T	30	B	
WA1435	8.5	250	5	N,S,7/16	30	B	
WA1436	8.5	300	5	N,S,7/16	30	B	
WA1437	8.5	10	1	N,S	30	A	
WA1438	5	300	10	N,S,7/16	30	B	
WA1439	3	150	10	N,S,T,7/16	30	B	
WA1443	18	5	1	S	30	A	
WA1444	26.5	25	0.5	3.5,K	30	B	
WA1445	3	250	10	N,7/16	30	B	
WA1446	18	25	1	N,S,T	30	B	
WA1447	18	50	1	N,S,T	30	B	
WA1448	18	100	1	N,S,T	30	B	
WA1449	8.5	150	5	N,S,T,7/16	30	B	
WA1451	8.5	500	5	N,S,7/16	30	B	
WA1452	4	25	5	N,S	30	B	
WA1453	3	500	10	N,7/16	30	B	
WA1454	40	2	0.5	K	30	B	
WA1455/6	6	2	0.5	N,T	30	A	
WA1455/12	12.4	2	0.5	N,T	30	A	
WA1455/18	18	2	0.5	N,T	30	A	
WA1456	32	2	0.5	3.5	30	A	
WA1458	5	250	10	n,S,T,7/16	30	B	
WA1460	5	500	10	N,7/16	30	B	
WA1461	4	150	5	N,S,T,7/16	30	B	
WA1462	8.5	150	5	N,S,T,7/16	30	B	
WA1465	3	150	10	N,S,T,7/16	45	B	
WA1466	18	150	5	N,S	30	B	
WA1467	12.7	350	5	N	45	B	
WA1470	3	1000	10	N,7/16	30	B	
WA1471	4	50	5	N,S,T	30	B	
WA1472	8.5	50	5	N,S,T	30	B	
WA1473	28	50	1	3.5,K	30	B	
WA1475	40	5	0.5	K	30	B	
WA1476	40	10	0.5	K	30	B	
WA1477	32	5	0.5	3.5,K	30	B	
WA1478	32	10	0.5	3.5,K	30	B	
WA1489	40	20	0.5	K	45	B	
WA1490	18	50	1	N,S	30	B	
WA1491	18	100	1	N,S	30	B	
WA1495	18	200	1	N	45	B	



DC Blocks

Model	Fmin GHz	Fmax GHz	Vmax		Conn	ARO	Disc	Notes
			V	x				
WA6043	9 kHz	18	50		N	30	A	
WA6046/6	0.01	6	50		N	30	A	
WA6046	0.01	18	50		N	30	A	
WA6055H/6	0.01	6	50		S	30	A	
WA6055H	0.01	18	50		S	30	A	
WA6056H	9 kHz	26.5	50		S	30	A	
WA7046/6	0.01	6	100		N	30	A	
WA7046	0.01	18	100		N	30	A	
WA7055H/6	0.01	6	100		S	30	A	
WA7055H	0.01	18	100		S	30	A	
WA8046/6	0.01	6	200		N	30	A	
WA8046	0.01	18	200		N	30	A	
WA8055H/6	0.01	6	200		S	30	A	
WA8055H	0.01	18	200		S	30	A	

Tunner

Model	Fmin	Fmax	Pmax	Con n	ARO	Disc	Export		Notes
	GHz	GHz	W				List	Rep	
WA200261	0.75	1.24	300	N	30	B	\$908	\$771	



Power Dividers / Splitters



	Fmax	Pa	Ppk					
Model	GHz	W	kW	Conn	ARO	Disc	Notes	
7PS-018	18	1	0.25	N/7mm	30	B	Splitter	
PS-018	18	1	0.25	N	30	B	Splitter	
WA1506A	18	1	0.25	N	30	B	Divider	
WA1507R	4	1	0.25	S	30	B	Splitter	
WA1515	18	1	0.5	S	30	B	Divider	
WA1534	40	1	0.25	2.92	60	B	Splitter	
WA1549R	4	1	0.5	S	30	B	Divider	
WA1574	26.5	1	0.25	3.5	60	B	Divider	
WA1575	40	1	0.25	2.92	60	B	Divider	
WA1593	26.5	1	0.25	3.5	60	B	Splitter	



Precision RF Adapters

	Fmax							
Model	GHz	Conn	ARO	Disc Notes				
WA1513	18	N-N (33,34,44)	15	A				
WA1514	18	TNC-TNC (55,56,66)	15	A				
WA1516	6	N-7/16 DIN (37,38,47,48)	15	A				
WA1517	6	BNC-BNC (11,12,22)	15	A				
WA1548	18	N-SMA (13,14,23,24)	15	A				
WA1550	18	N-TNC (35,36,45,46)	15	A				
WA1551	18	SMA-TNC (15,16,25,26)	15	A				
WA1587	27	SMA-SMA (11,12,22)	15	A				
WA7002	18	N or TNC to BNC	15	A				
WA7003	33	3.5mm-3.5mm (11,12,22)	15	A				
WA7004	40	2.9mm-2.9mm (11,12,22)	15	A				
WA7005	50	2.4mm-2.4mm (11,12,22)	15	A				
WA7006	40	2.9mm-2.4mm (11,12,21,22)	15	A				
WA7007	33	3.5mm-2.4mm(11,12,21,22)	15	A				
WA7008	18	N-3.5mm (13,14,23,24)	15	A				
WA7009	18	N-2.92mm (13,14,23,24)	15	A				
WA7010	27	SMA-2.92mm (11,12,21,22)	15	A				
WA7012	18	N-2.4mm (13,14,23,24)	15	A				
WA7013	27	SMA-2.4mm (11,12,21,22)	15	A				
WA7014	33	2.92mm-3.5mm (11,12,21,22)	15	A				
WA7015	50	1.85mm-1.85mm (11,12,22)	15	A				
WA7016	18	SMA-SMP (11,12,21,22)	15	A				
WA7017	40	2.92mm-1.85mm (11,12,21,22)	15	A				
WA7018	27	SMA-3.5mm (11,12,21,22)	15	A				
WA7019	27	3.5mm-1.85mm (11,12,21,22)	15	A				